NOTES

1. This drawing is for the intended use of the client for the specified project, and should not be used elsewhere without the express permission of the client and/or Ryzuk Geotechnical.
2. Base image taken from Google Maps.
3. Test hole locations are approximated relative to surface features. Estimated accuracy +/- 2 m.
4. TH21-XX drilled on March 15 and 16, 2021. TH17-XX drilled on February 2, 2017 under Ryzuk supervision.

RYZUK GEOTECHNICAL
ENGINEERING & MATERIALS TESTING
28 CREASE AVENUE - VICTORIA, BC V8Z 1S3
TEL: 250-475-3131 FAX: 250-475-3611
mail@ryzuk.com

SEAL

DRAWN BY	MLR
PROJECT MANAGER	AL
REVIEW	LGC
SCALE	1:250
DATE	2021/03/31
CLIENT	WESTURBAN DEVELOPMENTS LTD.
PROJECT TITLE	PROPOSED RESIDENTIAL DEVELOPMENT
PROJECT ADDRESS	89 & 107 EVANS STREET - DUNCAN, BC
DRAWING NAME	TEST HOLE LOCATION PLAN
PROJECT No.	8298-12
SHEET No.	1 of 1
REVISION	00

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TEST HOLE LOG

TH21-01

PROJECT: Proposed Residential Development
PROJECT NO.: 8298-12
CLIENT: WestUrban Developments Ltd
METHOD: Mud Sonic
LOCATION: SW Corner
ELEVATION (m): ~12.5
COORDINATES (m):
CONTRACTOR: Drillwell
COMPLETION DATE: 3/15/2021
LOGGED/REVIEWED BY: TLRG/AL

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	Recovery (%)	SPT (N)	COMMENTS
0	Asphalt - 50 mm					
	FILL - sand and gravel, pit run, grey, trace-some silt over 150 mm thick topsoil					
	SAND - silty, gravelly, inferred compact, brown					
1						
	GRAVEL and SAND - compact, well graded, brown, sand seams, cobbly seams, silty seams	Split Spoon	1	21	8 9 11 9	
2		Grab	2			
3		Grab	3			19.9% fines
		Split Spoon	4	35	16 13 14 14	
		Grab	5			3.1% fines
4						
5	SAND - trace silt-silty, trace gravel, loose to very loose, poorly graded, medium grained sand, grey-brown	Split Spoon	6	38	3 1 1 2	
		Grab	7			10.5% fines
	Below 5.5 m, becoming coarser, trace-some gravel	Grab	8			
	Rust/orange from 5.5-5.8 m					
6	Gravel seam					
		Split Spoon	9	56	11 13 11 14	
		Shelby Tube	9			
		Grab	10			2.2% fines
7	At 6.9 m, silty fine grained sand seam	Grab	11			31.3% fines
		Grab	12			
		Split Spoon	13	60	4 5 8 8	
8		Grab	13			33.1% fines
		Grab	14			
	Trace gravel above 8.2 m Below 8.2 m, grey					
9		Grab	15			
	SAND and SILT - loose to compact, fine grained sand, grey, variable silt and sand composition	Split Spoon	16	71	3 4 5 9	
	Minor organic streaks at 9.4 m	Grab	16			
10						

SPT (Standard Pen Test) (Blows/300mm): 20 40 60 80
PLASTIC M.C. LIQUID: 12.5 25.0 37.5 50.0

SAMPLE TYPE: SPLIT SPOON, GRAB, SHELBY TUBE, BULK, CORE, NO RECOVERY

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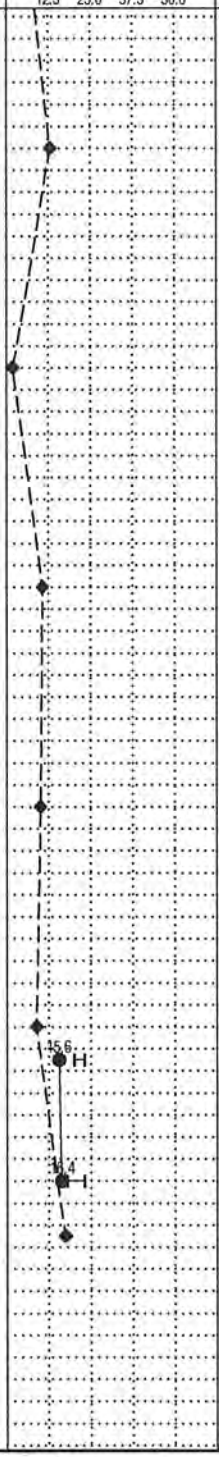
TEST HOLE LOG

TH21-01

PROJECT: Proposed Residential Development
CLIENT: WestUrban Developments Ltd
LOCATION: SW Corner
COORDINATES (m):
COMPLETION DATE: 3/15/2021

PROJECT NO.: 8298-12
METHOD: Mud Sonic
ELEVATION (m): ~12.5
CONTRACTOR: Drillwell
LOGGED/REVIEWED BY: TLRG/AL

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	Recovery (%)	SPT (N)	COMMENTS
10			17			
11			18	96	8 11 10 11	
			18			
	Gravel seam at 11.9 m					
12	At 11.9 m, medium-coarse grained sand seam, clean		19			
			20		5	
	At 12.4 m, very loose		20	58	2 1 2	
13			21			
			22			65.7% fines
14			23	67	8 10 7 6	
			24			
15			25			
			26	75	4 4 12 13	
			26			
16			27			
17			28		7 6 8 5	
	SILT - some sand, trace clay, compact to dense, low plasticity, grey		28	88		87.6% fines PL=20; LL=23; PI=3
			28			
			29			
18			30			81.7% fines PL=18; LL=23; PI=5
			31	100	0 3 25	
	SILT - sandy, trace gravel inclusions, compact to dense, low plasticity, grey		32			SPT Refusal at 18.7 m
19	BEDROCK or GLACIAL TILL - pulverized, inferred rock dust with mudstone gravel inclusions, grey, dry		33			
			34			
20	END OF TEST HOLE at 19.8 m - Desired depth					



SAMPLE TYPE: SPLIT SPOON, GRAB, SHELBY TUBE, BULK, CORE, NO RECOVERY

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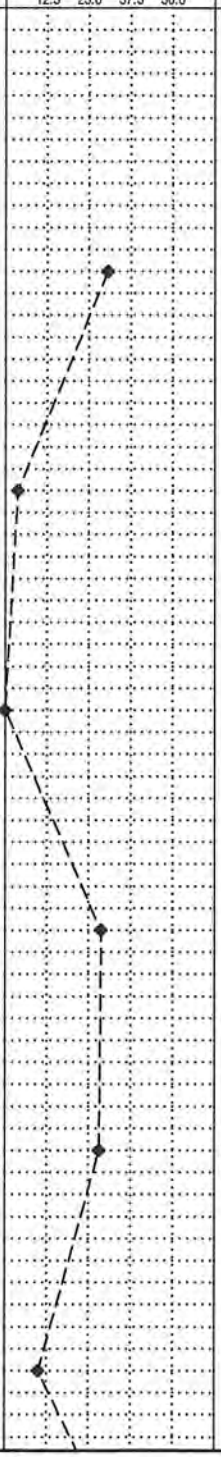
TEST HOLE LOG

TH21-02

PROJECT: Proposed Residential Development
CLIENT: WestUrban Developments Ltd
LOCATION: NE Corner
COORDINATES (m):
COMPLETION DATE: 3/16/2021

PROJECT NO.: 8298-12
METHOD: Mud Sonic
ELEVATION (m): ~12.5
CONTRACTOR: Drillwell
LOGGED/REVIEWED BY: TLRG/AL

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	Recovery (%)	SPT (N)	COMMENTS
0	Asphalt - 50 mm					
	FILL - sand and gravel, pit run, trace silt, grey-brown					
	Probable FILL - sand and silt, trace gravel, brown					
1	GRAVEL - and sand to some sand, trace silt, poorly graded, compact, brown	GRAB	1			
		SPLIT SPOON	2	58	30 27 22 25	
2		GRAB	3			
		GRAB	4			
3	Poor Sample Recovery	SPLIT SPOON	5	17	4 3 3 2	
		GRAB	6			
4		GRAB	7			
	SAND - poorly graded, medium grained, loose, brown, minor organic streaks	NO RECOVERY			1	
	SILT - very loose, variable fine sand, brown, wet	GRAB	9	63	0	
5		GRAB	8		0	
	SAND - variable, poorly graded, medium grained sand, inferred compact, brown	NO RECOVERY	9		1	
		GRAB	10			
	Above 5.2 m, gravelly	GRAB	11			
6	SAND - some gravel, compact, well graded, brown	SPLIT SPOON	12	48	10 25 21 25	
		GRAB	13			
7		GRAB	14			
	GRAVEL - sandy, silty, compact, poorly graded, brown	NO RECOVERY	15	71	9 32 13 10	27.7% fines
8	Below 8.2 m, grey	GRAB	16			18.5% fines
9		GRAB	17			
		NO RECOVERY	18	21	6 10 6 5	
	Below 9.6 m, interbedded gravel and silt (underlying stratum) seams		19			
10						



SAMPLE TYPE: SPLIT SPOON, GRAB, SHELBY TUBE, BULK, CORE, NO RECOVERY

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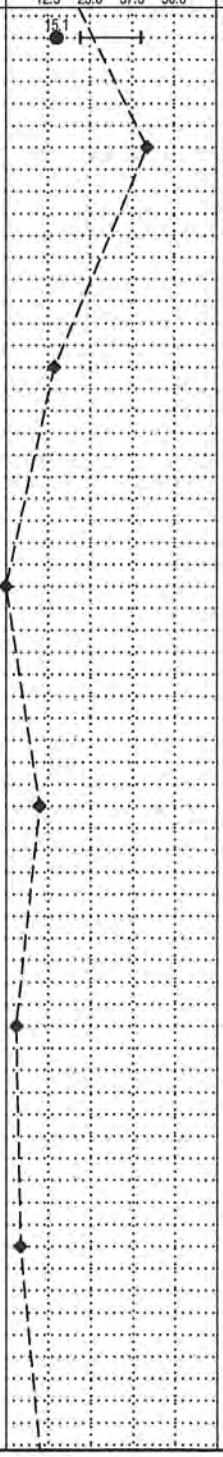
TEST HOLE LOG

TH21-02

PROJECT: Proposed Residential Development
CLIENT: WestUrban Developments Ltd
LOCATION: NE Corner
COORDINATES (m):
COMPLETION DATE: 3/16/2021

PROJECT NO.: 8298-12
METHOD: Mud Sonic
ELEVATION (m): ~12.5
CONTRACTOR: Drillwell
LOGGED/REVIEWED BY: TLRG/AL

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	Recovery (%)	SPT (N)	COMMENTS
10	SILT - trace clay, some fine sand, dense, low plasticity, grey		20			80.0% fines PL=22; LL=40; PI=17
	Below 10.5 m, gravel inclusions, sand clump inclusions		21 21	58	3 14 53 22	At 11.0 m, SPT hit cobble
11	SAND and SILT - compact to very loose, poorly graded, fine grained sand, grey, variable sand and silt composition		22 23			61.6% fines
12			24	31	4 10 13 9	
13			25			64.8% fines
	Below 13.1 m, no sonic sample recovery; soil stratum inferred based on split spoon recovery and rate of drill advance					
14			26		4 0 0 2	13.8% fines
15						
			27	92	5 7 9 8	48.2% fines
16						
17			28	92	6 5 0 2	60.3% fines
18						
			29	96	4 3 4 3	10.4% fines
19						
20					10	



SAMPLE TYPE: SPLIT SPOON, GRAB, SHELBY TUBE, BULK, CORE, NO RECOVERY

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TEST HOLE LOG

TH21-02

PROJECT: Proposed Residential Development
CLIENT: WestUrban Developments Ltd
LOCATION: NE Corner
COORDINATES (m):
COMPLETION DATE: 3/16/2021

PROJECT NO.: 8298-12
METHOD: Mud Sonic
ELEVATION (m): ~12.5
CONTRACTOR: Drillwell
LOGGED/REVIEWED BY: TLRG/AL

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	Recovery (%)	SPT (N)	SPT (Standard Pen Test) (Blows/300mm) 20 40 60 80	PLASTIC M.C. LIQUID 12.5 25.0 37.5 50.0	COMMENTS	DEPTH (m)
20				30	79	10 7 5				
		BEDROCK - mudstone, highly fractured to approximately 22.0 m								
21										21
				31						
22										22
23		END OF TEST HOLE at 22.9 m - Desired depth								23
24										24
25										25
26										26
27										27
28										28
29										29
30										

SAMPLE TYPE: SPLIT SPOON, GRAB, SHELBY TUBE, BULK, CORE, NO RECOVERY

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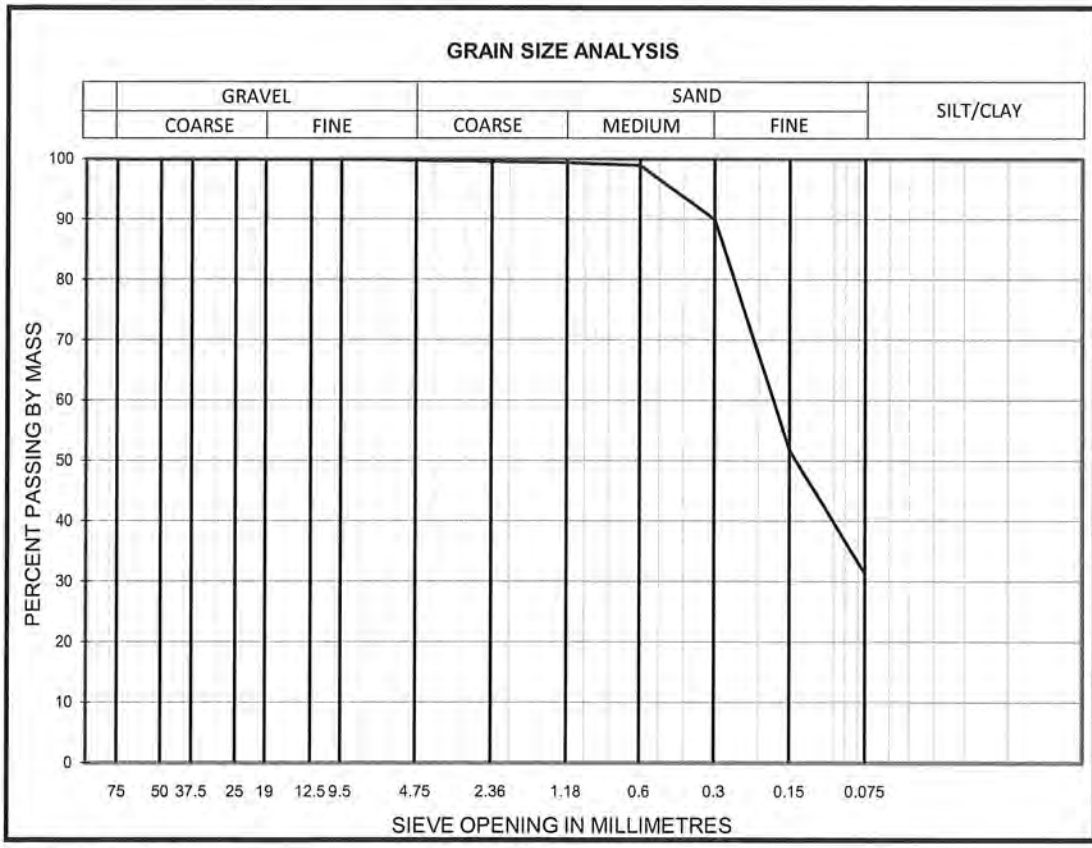
mail@ryzuk.com

Aggregate Gradation Analysis

Project No.:	8-8298-12
Project:	Proposed Residential Development
	89 and 107 Evans Street- Duncan, B.C.
Client:	WestUrban Developments Ltd.
Contact:	Cameron Salisbury MEDes, MCIP, RPP
Email/Fax No.	csalisbury@westurban.ca
Copy to:	Email/Fax:

SAMPLE I.D.:	GS11, 7.0-7.2 m	SAMPLE TYPE:	Grab Sample	SAMPLED BY:	TLRG
DATE SAMPLED:	15-Mar-21	DATE RECEIVED:	16-Mar-21	DATE TESTED:	26-Mar-21
TEST METHOD:	ASTM C136, D1140	SOURCE:	TH21-01		



SIEVE SIZE	PERCENT PASSING	SPEC % PASS.
150.0	100.0	-
75.0	100.0	-
50.0	100.0	-
37.5	100.0	-
25.0	100.0	-
19.0	100.0	-
12.5	100.0	-
9.5	100.0	-
4.75	99.8	-
2.36	99.6	-
1.180	99.4	-
0.600	99.0	-
0.300	90.0	-
0.150	51.8	-
0.075	31.3	-

SAMPLE DESCRIPTION: Sand

COMMENTS:

Per:

2013©MDM

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Aggregate Gradation Analysis

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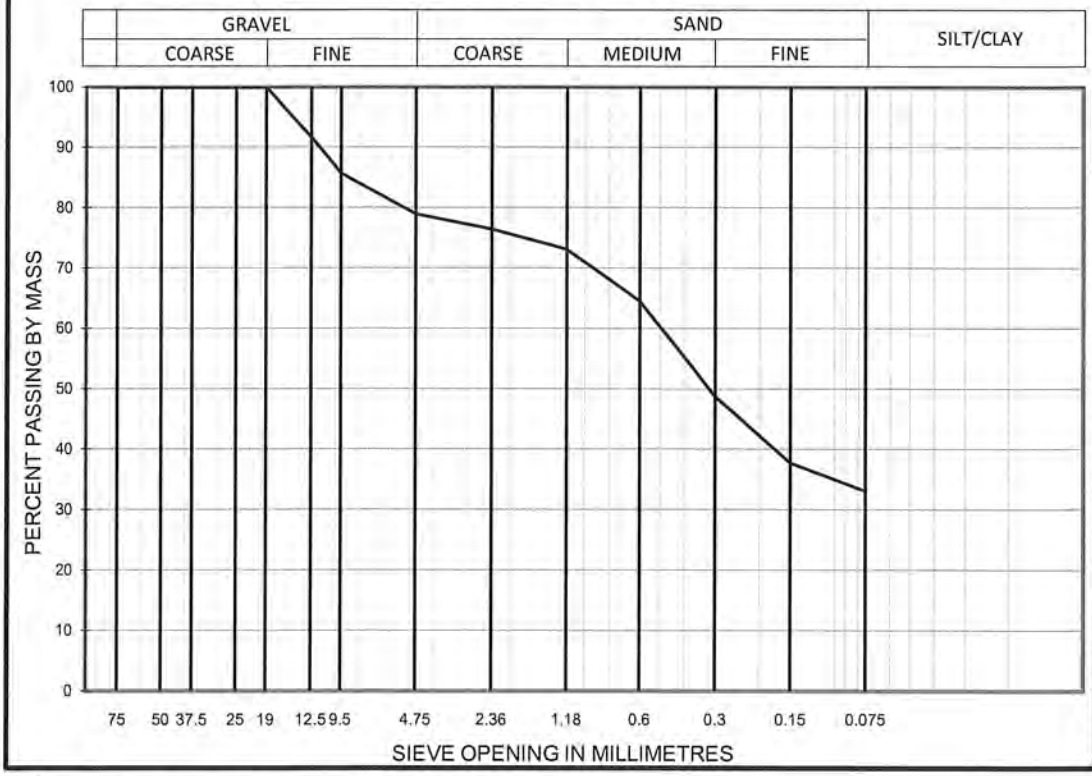
	89 and 107 Evans Street- Duncan, B.C.
Client:	WestUrban Developments Ltd.
Contact:	Cameron Salisbury MEDes, MCIP, RPP
Email/Fax No.	csalisbury@westurban.ca
Copy to:	Email/Fax:

SAMPLE I.D.:	GS13, 7.9-8.2 m	SAMPLE TYPE:	Grab Sample	SAMPLED BY:	TLRG
DATE SAMPLED:	15-Mar-21	DATE RECEIVED:	16-Mar-21	DATE TESTED:	26-Mar-21
TEST METHOD:	ASTM C136, D1140	SOURCE:	TH21-01		

GRAIN SIZE ANALYSIS



SIEVE SIZE	PERCENT PASSING	SPEC % PASS.
150.0	100.0	-
75.0	100.0	-
50.0	100.0	-
37.5	100.0	-
25.0	100.0	-
19.0	100.0	-
12.5	91.7	-
9.5	85.7	-
4.75	79.0	-
2.36	76.4	-
1.180	73.1	-
0.600	64.4	-
0.300	48.7	-
0.150	37.7	-
0.075	33.1	-

SAMPLE DESCRIPTION: Gravelly Sand

COMMENTS:

Per:

2013DIMDM

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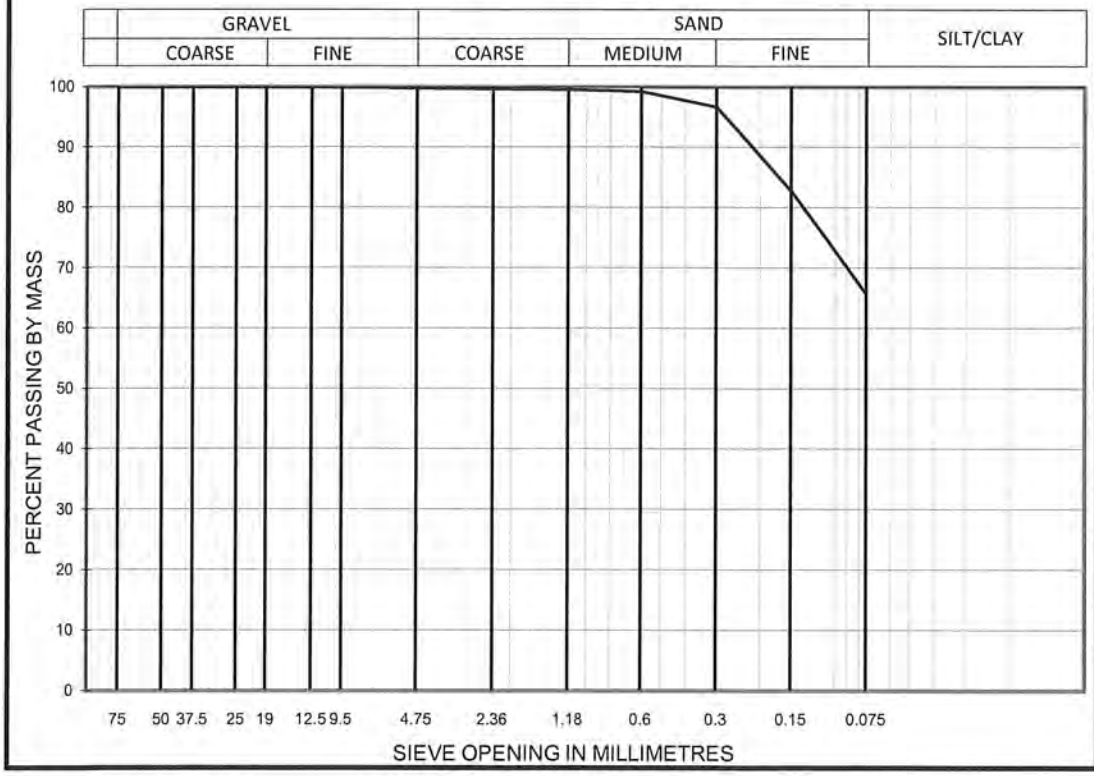
Email/Fax No.	csalisbury@westurban.ca
Copy to:	Email/Fax:

SAMPLE I.D.:	GS22, 13.2-13.4 m	SAMPLE TYPE:	Grab Sample	SAMPLED BY:	TLRG
DATE SAMPLED:	15-Mar-21	DATE RECEIVED:	16-Mar-21	DATE TESTED:	26-Mar-21
TEST METHOD:	ASTM C136, D1140	SOURCE:	TH21-01		

GRAIN SIZE ANALYSIS



SIEVE SIZE	PERCENT PASSING	SPEC % PASS.
150.0	100.0	-
75.0	100.0	-
50.0	100.0	-
37.5	100.0	-
25.0	100.0	-
19.0	100.0	-
12.5	100.0	-
9.5	100.0	-
4.75	99.8	-
2.36	99.6	-
1.180	99.5	-
0.600	99.2	-
0.300	96.7	-
0.150	82.8	-
0.075	65.7	-

SAMPLE DESCRIPTION: Sandy silt

COMMENTS:

Per:

2013DMDM

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Aggregate Gradation Analysis

Project No.:	8-8298-12
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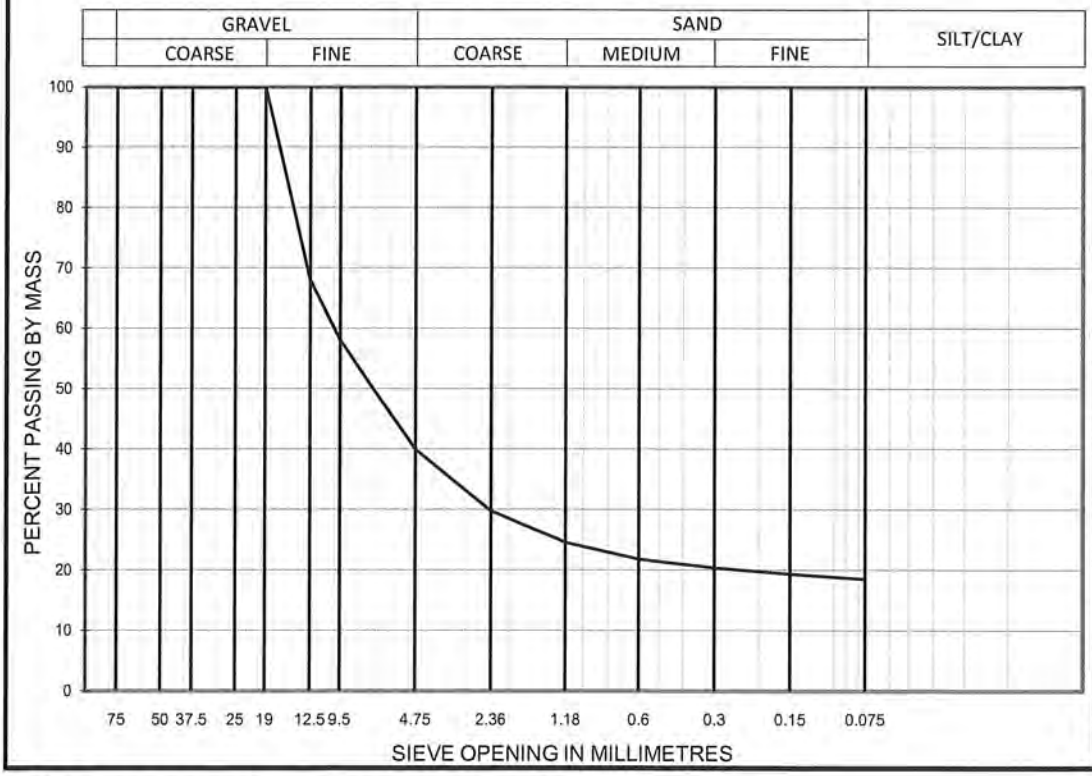
	89 and 107 Evans Street- Duncan, B.C.
Client:	WestUrban Developments Ltd.
Contact:	Cameron Salisbury MEDes, MCIP, RPP
Email/Fax No.	csalisbury@westurban.ca
Copy to:	Email/Fax:

SAMPLE I.D.:	GS16, 9.4-9.8 m	SAMPLE TYPE:	Grab Sample	SAMPLED BY:	TLRG
DATE SAMPLED:	16-Mar-21	DATE RECEIVED:	16-Mar-21	DATE TESTED:	26-Mar-21
TEST METHOD:	ASTM C136, D1140	SOURCE:	TH21-02		

GRAIN SIZE ANALYSIS



SIEVE SIZE	PERCENT PASSING	SPEC % PASS.
150.0	100.0	-
75.0	100.0	-
50.0	100.0	-
37.5	100.0	-
25.0	100.0	-
19.0	100.0	-
12.5	68.1	-
9.5	58.0	-
4.75	40.0	-
2.36	29.8	-
1.180	24.6	-
0.600	21.8	-
0.300	20.4	-
0.150	19.3	-
0.075	18.5	-

SAMPLE DESCRIPTION: Sandy Gravel

COMMENTS:

Per:

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Aggregate Gradation Analysis

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Client:	WestUrban Developments Ltd.
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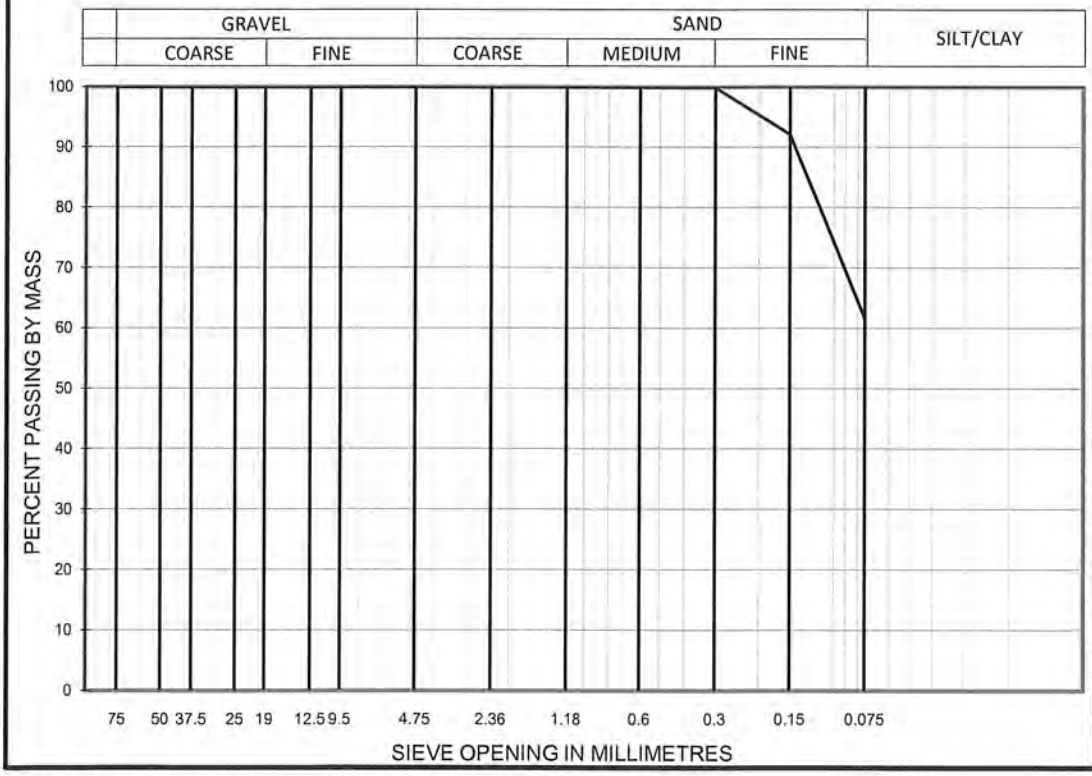
Email/Fax No.	csalisbury@westurban.ca
Copy to:	Email/Fax:

SAMPLE I.D.:	GS22, 11.4-11.6 m	SAMPLE TYPE:	Grab Sample	SAMPLED BY:	TLRG
DATE SAMPLED:	16-Mar-21	DATE RECEIVED:	16-Mar-21	DATE TESTED:	26-Mar-21
TEST METHOD:	ASTM C136, D1140	SOURCE:	TH21-02		

GRAIN SIZE ANALYSIS



SIEVE SIZE	PERCENT PASSING	SPEC % PASS.
150.0	100.0	-
75.0	100.0	-
50.0	100.0	-
37.5	100.0	-
25.0	100.0	-
19.0	100.0	-
12.5	100.0	-
9.5	100.0	-
4.75	100.0	-
2.36	100.0	-
1.180	100.0	-
0.600	99.9	-
0.300	99.9	-
0.150	92.1	-
0.075	61.6	-

SAMPLE DESCRIPTION: Silt and Sand

COMMENTS:

Per:

2013©IMDM

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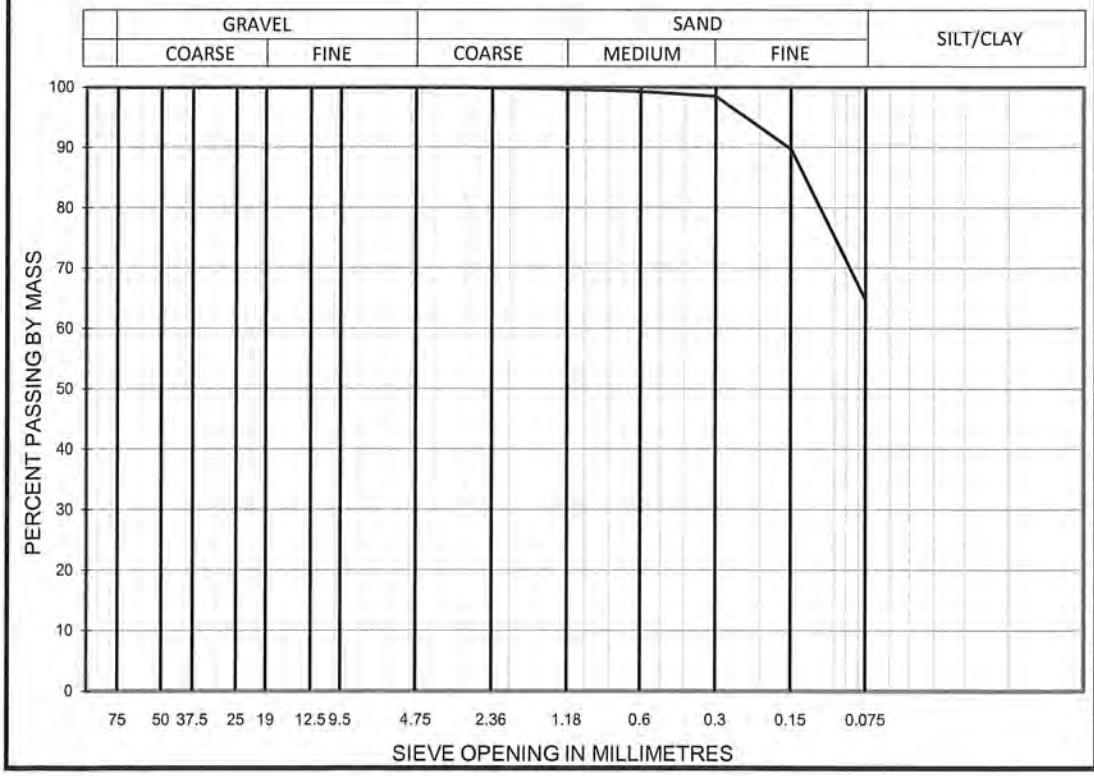
Aggregate Gradation Analysis

Project No.:	8-8298-12
Project:	Proposed Residential Development
	89 and 107 Evans Street- Duncan, B.C.
Client:	WestUrban Developments Ltd.
Contact:	Cameron Salisbury MEDes, MCIP, RPP
Email/Fax No.	csalisbury@westurban.ca
Copy to:	Email/Fax:

SAMPLE I.D.:	GS25, 12.8-13.1 m	SAMPLE TYPE:	Grab Sample	SAMPLED BY:	TLRG
DATE SAMPLED:	16-Mar-21	DATE RECEIVED:	16-Mar-21	DATE TESTED:	26-Mar-21
TEST METHOD:	ASTM C136, D1140	SOURCE:	TH21-02		

GRAIN SIZE ANALYSIS



SIEVE SIZE	PERCENT PASSING	SPEC % PASS.
150.0	100.0	-
75.0	100.0	-
50.0	100.0	-
37.5	100.0	-
25.0	100.0	-
19.0	100.0	-
12.5	100.0	-
9.5	100.0	-
4.75	100.0	-
2.36	99.9	-
1.180	99.7	-
0.600	99.3	-
0.300	98.5	-
0.150	89.8	-
0.075	64.8	-

SAMPLE DESCRIPTION: Sand and Silt

COMMENTS:

Per:

2013DIMDM

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mail@ryzuk.com

SOIL TESTS - ATTERBERG LIMITS - ASTM D4318

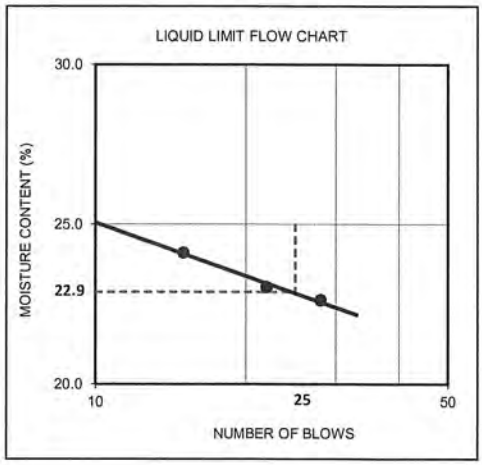
Project No:	8298-12	**Client:**	WestUrban Developments Ltd
Project:	Proposed Residential Development	**Contact:**	Cameron Salisbury MEDes, MCIP, RPP
Project Address:	89 and 107 Evans Street- Duncan, B.C.	**Email/Fax:**	csalisbury@westurban.ca
Date Sampled:	15-Mar-21	**Date Tested:**	26-Mar-21
Sampled By:	TLRG	**Tested By:**	PN

PLASTIC LIMIT			
Test No.	1	2	3
Container No.	55	33	
Wt. Of Tare (g)	28.60	24.10	
Tare + Wet Soil (g)	38.10	35.00	
Tare + Dry Soil (g)	36.60	33.10	
Wt. of Water (g)	1.50	1.90	
Wt. of Dry Soil (g)	8.00	9.00	
Moisture Content (%)	**18.8**	**21.1**	
		AVERAGE	**19.9**

Sample Information:

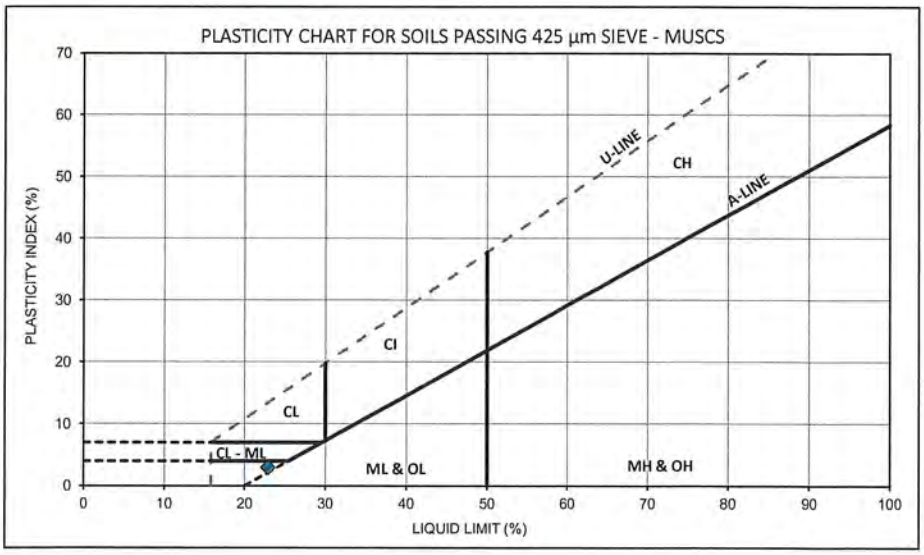
Test Method: ☑ Wet ☐ Dry
Test Hole ID: TH21-01
Drill Type: Sonic
Sample No.: GS28
Depth: 17.2-17.4 m

LIQUID LIMIT				
Test No.	1	2	3	4
Number of Blows	28	22	15	
Container No.	23	49A	14	
Wt. of Tare (g)	24.00	30.90	23.10	
Tare + Wet Soil (g)	47.30	56.00	44.20	
Tare + Dry Soil (g)	43.00	51.30	40.10	
Wt. of Water (g)	4.30	4.70	4.10	
Wt. of Dry Soil (g)	19.00	20.40	17.00	
Moisture Content (%)	**22.6**	**23.0**	**24.1**	



Plasticity Index	**3**
Liquid Limit	**23**
Plastic Limit	**20**
Soil Classification	**ML**
Field Moisture Content	**15.6**

Comments:



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SOIL TESTS - ATTERBERG LIMITS - ASTM D4318

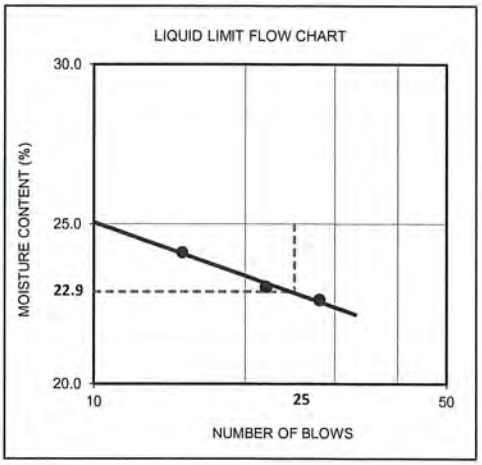
Project No:	8298-12	**Client:**	WestUrban Developments Ltd
Project:	Proposed Residential Development	**Contact:**	Cameron Salisbury MEDes, MCIP, RPP
Project Address:	89 and 107 Evans Street- Duncan, B.C.	**Email/Fax:**	csalisbury@westurban.ca
Date Sampled:	15-Mar-21	**Date Tested:**	26-Mar-21
Sampled By:	TLRG	**Tested By:**	PN

PLASTIC LIMIT			
Test No.	1	2	3
Container No.	55	52	
Wt. Of Tare (g)	28.60	29.72	
Tare + Wet Soil (g)	38.10	42.93	
Tare + Dry Soil (g)	36.60	41.00	
Wt. of Water (g)	1.50	1.93	
Wt. of Dry Soil (g)	8.00	11.28	
Moisture Content (%)	**18.8**	**17.1**	
		AVERAGE	**17.9**

Sample Information:

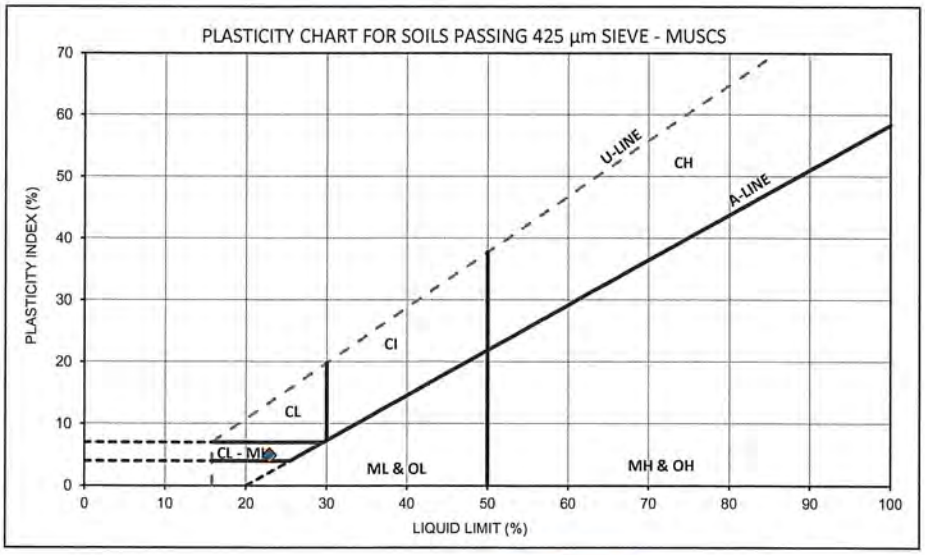
Test Method: ☑ Wet ☐ Dry
Test Hole ID: TH21-01
Drill Type: Sonic
Sample No.: GS30
Depth: 18.0-18.3 m

LIQUID LIMIT				
Test No.	1	2	3	4
Number of Blows	28	22	15	
Container No.	23	49A	14	
Wt. of Tare (g)	24.00	30.90	23.10	
Tare + Wet Soil (g)	47.30	56.00	44.20	
Tare + Dry Soil (g)	43.00	51.30	40.10	
Wt. of Water (g)	4.30	4.70	4.10	
Wt. of Dry Soil (g)	19.00	20.40	17.00	
Moisture Content (%)	**22.6**	**23.0**	**24.1**	



Plasticity Index	**5**
Liquid Limit	**23**
Plastic Limit	**18**
Soil Classification	**CI-ML**
Field Moisture Content	**16.4**

Comments:



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mail@ryzuk.com

SOIL TESTS - ATTERBERG LIMITS - ASTM D4318

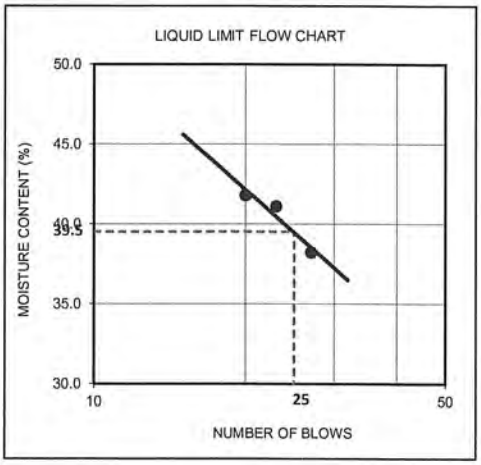
Project No:	8298-12	**Client:**	WestUrban Developments Ltd
Project:	Proposed Residential Development	**Contact:**	Cameron Salisbury MEDes, MCIP, RPP
Project Address:	89 and 107 Evans Street- Duncan, B.C.	**Email/Fax:**	csalisbury@westurban.ca
Date Sampled:	16-Mar-21	**Date Tested:**	26-Mar-21
Sampled By:	TLRG	**Tested By:**	PN

PLASTIC LIMIT			
Test No.	1	2	3
Container No.	60	12	
Wt. Of Tare (g)	30.40	23.50	
Tare + Wet Soil (g)	36.90	30.10	
Tare + Dry Soil (g)	35.70	28.90	
Wt. of Water (g)	1.20	1.20	
Wt. of Dry Soil (g)	5.30	5.40	
Moisture Content (%)	**22.6**	**22.2**	
		AVERAGE	22.4

Sample Information:

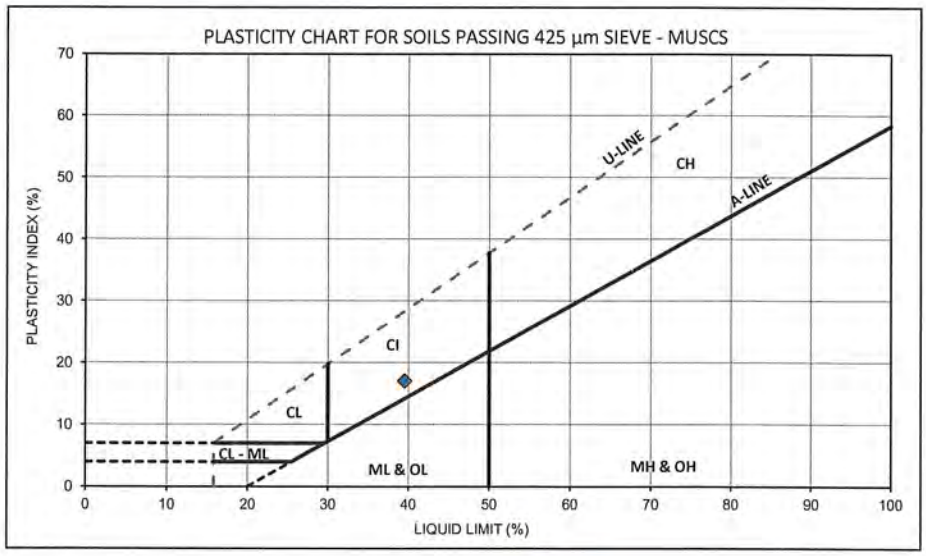
Test Method: ☑ Wet ☐ Dry
Test Hole ID: TH21-02
Drill Type: Sonic
Sample No.: GS20
Depth: 10.1-10.3 m

LIQUID LIMIT				
Test No.	1	2	3	4
Number of Blows	27	23	20	
Container No.	44	27	36	
Wt. of Tare (g)	29.90	23.50	23.10	
Tare + Wet Soil (g)	44.00	36.20	40.40	
Tare + Dry Soil (g)	40.10	32.50	35.30	
Wt. of Water (g)	3.90	3.70	5.10	
Wt. of Dry Soil (g)	10.20	9.00	12.20	
Moisture Content (%)	**38.2**	**41.1**	**41.8**	



Plasticity Index	**17**
Liquid Limit	**40**
Plastic Limit	**22**
Soil Classification	**CI**
Field Moisture Content	**15.1**

Comments:



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